AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for controlling transmission of data bits in a bit transfer session for transmitting data information from an application server ~~(2)~~ to a client ~~(1)~~, said bit transfer session involving bit transfer over a wireless communications link by means of a transport protocol with a flow control mechanism, the method comprising ~~characterised by~~ the steps of:

a network entity ~~(2,4)~~ receiving ~~(32,34)~~, continuously throughout said session, information from a radio resource managing unit ~~(6)~~ about the bandwidth on the wireless link that the bit transfer session currently is allowed to use; and

said network entity updating ~~(35)~~ at least one parameter relating to the flow control mechanism of the transport protocol in response to said received information, so as to control the transmission rate of the session in accordance with said received information.

2. (Currently Amended) The method for controlling transmission of data bits according to claim 1, further comprising the step of ~~characterised by~~ the network entity ~~(2,4)~~

receiving said information from the radio resource managing unit each time the bandwidth on the wireless link that the bit transfer session is allowed to use has changed.

3. (Currently Amended) The method for controlling transmission of data bits according to claim 1, further comprising ~~characterised by~~ the network entity ~~(2,4)~~ receiving said information from the radio resource managing unit at predetermined intervals.

4. (Currently Amended) The method for controlling transmission of data bits according to claim 1, ~~any of claims 1-3 characterised by~~ said network entity being the application server ~~(2)~~.

5. (Currently Amended) The method for controlling transmission of data bits according to claim 1, ~~any of claims 1-3 characterised by~~ said bit transfer session being set up between the application server ~~(2)~~ and the client ~~(1)~~ via a proxy ~~(4)~~ and by said network entity being the proxy.

6. (Currently Amended) The method for controlling transmission of data bits according to claim 5, ~~characterised by~~ said proxy ~~(4)~~ sending acknowledgements of packets received from the application server ~~(2)~~ during said bit transfer session and by said acknowledgements being dependent on said received information from the radio resource managing unit ~~(6)~~.

7. (Currently Amended) The method for controlling transmission of data bits according to claim 1, ~~any of the previous claims characterised by~~ said network

entity ~~(2,4)~~ receiving said information from the radio resource managing unit ~~(6)~~ via the client ~~(1)~~.

8. (Currently Amended) The method for controlling transmission of data bits according to claim 1 ~~any of the previous claims~~ characterised by said transport protocol being TCP.

9. (Currently Amended) The method for controlling transmission of data bits according to claim 8, ~~characterised by~~ said at least one parameter being the TCP window size and/or the TCP segment size.

10. (Currently Amended) The method for controlling transmission of data bits according to claim 1, ~~any of the previous claims characterised by the~~ further comprising the step of transforming the data to be transmitted during the bit transfer session in response to said received information from the radio resource managing unit ~~(6)~~.

11. (Currently Amended) The method for controlling transmission of data bits according to claim 1 ~~any of the previous claims characterised by~~ further comprising updating said at least one parameter such that the bandwidth on the wireless link that is utilized by the bit transfer session increases or decreases.

12. (Currently Amended) The method for controlling transmission of data bits according to claim 1, ~~any of the previous claims characterised by~~ the radio resource managing unit being a radio network controller ~~(6)~~.

13. (Currently Amended) The method for controlling transmission of data bits according to claim 1, ~~any of claims 1-11 characterised by~~ the radio resource managing unit being a base station controller.

14. (Canceled without prejudice)

15. (Currently Amended) An apparatus, included in a network entity, for controlling transmission of data bits in a bit transfer session for transmitting data information from an application server ~~(2)~~ to a client ~~(1)~~, said bit transfer session involving bit transfer over a wireless communications link by means of a transport protocol with a flow control mechanism, ~~characterised in that the apparatus is included in a network entity (2,4) and in that the apparatus includes~~ the apparatus comprising:

reception means for ~~continuously throughout said session~~ receiving information continuously throughout said session from a radio resource managing unit ~~(6)~~ about the bandwidth on the wireless link that the bit transfer session currently is allowed to use; and

parameter setting means for updating at least one parameter relating to the flow control mechanism of the transport protocol in response to said received information, so

as to control the transmission rate of the session in accordance with said received information.

16. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 15, wherein ~~characterised in that~~ said reception means is arranged to receive said information from the radio resource managing unit ~~(6)~~ each time the bandwidth on the wireless link that the bit transfer session is allowed to use has changed.

17. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 15, wherein ~~characterised in that~~ said reception means is arranged to receive said information from the radio resource managing unit ~~(6)~~ at predetermined intervals.

18. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 15, wherein ~~any of claims 15-17 characterised in that~~ said reception means and said parameter setting means are included in the application server ~~(2)~~.

19. (Currently Amended) The apparatus for controlling transmission of data bits according claim 15, wherein ~~any of claims 15-17 characterised in that~~ said bit transfer session is set up between the application server ~~(2)~~ and the client ~~(1)~~ via a

proxy ~~(4)~~ and in that said reception means and said parameter setting means are included in the proxy.

20. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 19, wherein ~~characterised in the~~ said proxy ~~(4)~~ is arranged to send acknowledgements of packets received from the application server ~~(2)~~ during said bit transfer session, which acknowledgements are dependent on said information from the radio resource managing unit ~~(6)~~.

21. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 15, wherein ~~any of claims 15-20 characterised in that~~ said reception means are arranged to receive said information from the radio resource managing unit ~~(6)~~ via the client ~~(1)~~.

22. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 15, wherein ~~any of claims 15-21 characterised in that~~ said transport protocol is TCP.

23. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 22, wherein ~~characterised in that~~ said at least one parameter is ~~the~~ TCP window size and/or ~~the~~ TCP segment size.

24. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 15, wherein ~~any of claims claim 15-23 characterised in that~~ the apparatus further includes means for transforming the data to be transmitted during the bit transfer session in response to said information from the radio resource managing unit ~~(6)~~.

25. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 15, wherein ~~any of the claims claim 15-24 characterised in that~~ said parameter setting means is arranged to update said at least one parameter such that the bandwidth on the wireless link that is utilized by the bit transfer session increases or decreases.

26. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 15, wherein ~~any of the claims claim15-25 characterised in that~~ the radio resource managing unit is a radio network controller ~~(6)~~.

27. (Currently Amended) The apparatus for controlling transmission of data bits according to claim 15, wherein ~~any of the claims claim15-25 characterised in that~~ the radio resource managing unit is a base station controller.

28. (Currently Amended) A system for controlling transmission of data bits in a bit transfer session involving bit transfer over a wireless communications link by

means of a transport protocol with a flow control mechanism ~~characterised in that~~ the system comprising ~~includes~~:

an apparatus further comprising:

reception means for receiving information continuously throughout said session from a radio resource managing unit about the bandwidth on the wireless link that the bit transfer session currently is allowed to use; and

parameter setting means for updating at least one parameter relating to the flow control mechanism of the transport protocol in response to said received information, so as to control the transmission rate of the session in accordance with said received information;

~~according to any of claims claim~~14-25, and

a radio resource managing unit ~~(~~6~~)~~ arranged to ~~continuously throughout said session~~ send information continuously, throughout said session, about the bandwidth on the wireless link that the bit transfer session currently is allowed to use to the reception means of said apparatus.

29. (Currently Amended) The system for controlling transmission of data bits according to claim 27, wherein ~~characterised in that~~ said system further includes a storing unit ~~(~~7~~)~~, in that the radio resource managing unit ~~(~~6~~)~~ is arranged to send said information to said apparatus via said storing unit and in that said storing unit is arranged to relay said information from said radio resource managing unit to said apparatus.

30. (New) The apparatus for controlling transmission of data bits according to claim 28, wherein said reception means is arranged to receive said information from the radio resource managing unit each time the bandwidth on the wireless link that the bit transfer session is allowed to use has changed.

31. (New) The system for controlling transmission of data bits according to claim 28, wherein said reception means is arranged to receive said information from the radio resource managing unit at predetermined intervals.

32. (New) The system for controlling transmission of data bits according to claim 28, wherein said reception means and said parameter setting means are included in the application server.

33. (New) The system for controlling transmission of data bits according claim 28, wherein said bit transfer session is set up between the application server and the client via a proxy and in that said reception means and said parameter setting means are included in the proxy.

34. (New) The system for controlling transmission of data bits according to claim 33, wherein said proxy is arranged to send acknowledgements of packets received from the application server during said bit transfer session, which acknowledgements are dependent on said information from the radio resource managing unit.

35. (New) The system for controlling transmission of data bits according to claim 28, said reception means are arranged to receive said information from the radio resource managing unit via the client.

36. (New) The system for controlling transmission of data bits according to claim 28, wherein said transport protocol is TCP.

37. (New) The system for controlling transmission of data bits according to claim 36, wherein said at least one parameter is TCP window size and/or TCP segment size.

38. (New) The system for controlling transmission of data bits according to claim 28, wherein the apparatus further includes means for transforming the data to be transmitted during the bit transfer session in response to said information from the radio resource managing unit.

39. (New) The system for controlling transmission of data bits according to claim 28, wherein said parameter setting means is arranged to update said at least one parameter such that the bandwidth on the wireless link that is utilized by the bit transfer session increases or decreases.

40. (New) The system for controlling transmission of data bits according to claim 28, wherein the radio resource managing unit is a radio network controller.

41. (New) The system for controlling transmission of data bits according to claim 28, wherein the radio resource managing unit is a base station controller.